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U. S. Nuclear Regulatory Commission
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**SUSQUEHANNA STEAM ELECTRIC STATION
REQUEST FOR ADDITIONAL INFORMATION FOR THE
REVIEW OF THE SUSQUEHANNA STEAM ELECTRIC STATION
UNITS 1 AND 2, LICENSE RENEWAL APPLICATION (LRA)
SECTION 2.3.3.18
PLA-6462**

**Docket Nos. 50-387
and 50-388**

- References:*
- 1) *PLA-6110, Mr. B. T. McKinney (PPL) to Document Control Desk (USNRC), "Application for Renewed Operating License Numbers NPF-14 and NPF-22," dated September 13, 2006.*
 - 2) *Letter from Ms. E. H. Gettys (USNRC) to Mr. W. H. Spence (PPL), "Request for Additional Information for the Review of the Susquehanna Steam Electric Station, Units 1 and 2, License Renewal Application," dated December 3, 2008.*

In accordance with the requirements of 10 CFR 50, 51, and 54, PPL requested the renewal of the operating licenses for the Susquehanna Steam Electric Station (SSES) Units 1 and 2 in Reference 1.

Reference 2 is a request for additional information (RAI) related to License Renewal Application (LRA) Section 2.3.3.18. The enclosure to this letter provides the question response and the additional requested information.

There are no new regulatory commitments contained herein as a result of the attached response.

If you have any questions, please contact Mr. Duane L. Filchner at (610) 774-7819.

A120
NRR

I declare, under penalty of perjury, that the foregoing is true and correct.

Executed on: 12-12-08

Richard D. Pogodin for W. H. Spence

W. H. Spence

Enclosure: PPL Response to NRC's Request for Additional Information (RAI)

Copy: NRC Region I

Ms. E. H. Gettys, NRC Project Manager, License Renewal, Safety

Mr. R. Janati, DEP/BRP

Mr. F. W. Jaxheimer, NRC Sr. Resident Inspector

Mr. A. L. Stuyvenberg, NRC Project Manager, License Renewal, Environmental

**Enclosure to PLA-6462
PPL Response to NRC's
Request for Additional Information (RAI)**

RAI 2.3.3.18-1:

According to the License Renewal Application (LRA) Section 2.3.3.18, the license renewal system identified as the "Process and Area Radiation Monitoring System" is a combination of two systems identified in the Susquehanna FSAR as the "Process and Effluent Radiological Monitoring and Sampling Systems" and the "Area Radiation Monitoring System." The "Process and Effluent Radiological Monitoring System" is composed of a number of systems that are listed in the FSAR Section 11.5.2.1. Of the systems in the FSAR Section 11.5.2.1, only the "Residual Heat Removal Service Water Radiological Monitoring System" and the "Primary Containment Radiation Monitoring System" could be identified in the License Renewal Boundary Drawings listed in LRA Section 2.3.3.18. The staff requests that the licensee provide additional information identifying which systems listed in the FSAR Section 11.5.2.1 are in scope for license renewal. The staff also requests that the licensee provide boundary drawings or equivalent information so that the staff can verify that all components of the in-scope systems have been properly evaluated.

PPL Response:

The systems listed in FSAR Section 11.5.2.1 are addressed for license renewal as follows.

The subsystems of the Process and Effluent Radiological Monitoring System (RMS) within the scope of license renewal are:

Subsystem	Boundary Drawing/ Coordinates	Notes
Standby Gas Treatment Vent Stack Exhaust Monitor and Sample RMS	LR-M-178 SH 1; A/10	1
Standby Gas Treatment Vent Duct Exhaust RMS	LR-VC-178 SH 3; A/5	2
Refueling Floor Wall Duct Exhaust RMS	LR-VC-(2)175 SH 2; B/9	2
Refueling Floor High Exhaust Duct RMS	LR-VC-(2)175 SH 2; A/9	2
Railroad Access Exhaust Duct RMS	LR-VC-175 SH 2; B/7	2
Outside Air Intake Duct (Influent) RMS	LR-VC-178 SH 1; A/9	2
Service Water Discharge/Supplemental Decay Heat Removal RMS	LR-M-110 SH 1; E/1; LR-M-2110 SH 1; H/3	3
Main Steamline Radiation Monitoring System	LR-M-(2)139 SH 1; A/1-2	2

Subsystem	Boundary Drawing/ Coordinates	Notes
RHR Service Water RMS	LR-M-(2)112 SH 1; D/9 and H/9	4
Reactor Building Closed Cooling Water RMS	LR-M-(2)113 SH 1; F/1	3
Primary Containment Atmospheric Monitoring System	LR-M-(2)157 SH 6 & 7; A/4 thru G/8	4
Primary Containment Radiation Monitoring System (High Range)	LR-M-(2)157 SH 4; C/4 and C/5	2

Notes:

1. The stack flow elements are in scope as safety-related components that perform a mechanical pressure boundary function as identified in LRA Section 2.3.3.18.

2. The radiation elements are in scope as safety-related components, but do not perform a mechanical license renewal function. The radiation elements and associated instrumentation are active components in accordance with NEI 95-10, Appendix B, and are not subject to aging management review.

3. The radiation element wells are in scope as piping components with a mechanical pressure boundary function, as identified in LRA Sections 2.3.3.23 and 2.3.3.31. The radiation elements themselves do not meet the 10 CFR 54.4(a) scoping criteria and are not within the scope of license renewal.

4. The radiation monitoring panels and integral components inside the boundary of the panels in these subsystems are considered active components in accordance with NEI 95-10, Appendix B, and are not subject to aging management review.

The following subsystems in FSAR 11.5.2.1 do not meet the 10 CFR 54.4(a) scoping criteria and are not within the scope of license renewal:

- Reactor Building Vent Stack Exhaust Monitoring and Sample RMS
- Turbine Building and Radwaste Vent Stack Exhaust Monitor and Sample RMS
- Plant Radwaste Effluent RMS
- Offgas Pretreatment RMS